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## FAX TRANSMISSION

DATE: July 27, 2007

PTO IDENTIFIER:	Application Number	09/837,669-Conf. #9894
	Patent Number	7,017,160
Inventor:	Paul A. Martin et al.	

MESSAGE TO: US Patent and Trademark Office

FAX NUMBER: (571) 273-8300

FROM: OSHA · LIANG LLP

Robert P. Lord

PHONE: (713) 228-8600

Attorney Dkt #: 33226/960001; P4665US-CIP-0

PAGES (Including Cover Sheet): 22

CONTENTS:	Transmittal (1 page) Transmittal Letter (2 pages) Revocation and Substitute under 37 CFR §1.36 with attached Appendix A (17 pages) Certificate of Transmission (1 page)
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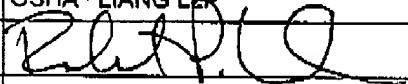
(to be used for all correspondence after initial filing)

		Application Number	Patent#: 7,017,160
		Filing Date	Issued: March 21, 2006
		First Named Inventor	Paul A. Martin
		Art Unit	2195
		Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission	21	Attorney Docket Number	33228/960001; P4665US-CIP-0

## ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
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## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	OSHA LIANG LLP		
Signature			
Printed name	Robert P. Lord		
Date	July 27, 2007	Reg. No.	46,479

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Docket No.: 33226/960001; P4665US-CIP-0  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re Letters Patent of:  
Paul A. Martin et al.**

**Patent No.: 7,017,160**

**Issued: March 21, 2006**

**For: CONCURRENT SHARED OBJECT  
IMPLEMENTED USING A LINKED-LIST  
WITH AMORTIZED NODE ALLOCATION**

**TRANSMITTAL LETTER**

**Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

**Dear Sir:**

**Enclosed are the following items for filing in connection with the above-referenced Patent:**

- 1. Transmittal (1 page);**
- 2. Revocation and Substitute under 37 CFR §1.36 with attached Appendix A (17 pages); and**
- 3. Certificate of Transmission (1 page).**

**The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in**

Application No.: 09/837,669

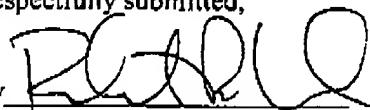
Docket No.: 33226/960001; P4665US-CIP-0

this application by this firm) to our Deposit Account No. 50-0591, under Order No. 33226/960001; P4665US-CIP-0.

Dated: July 27, 2007

Respectfully submitted,

By



Robert P. Lord  
Registration No.: 46,479  
OSHA LIANG LLP  
1221 McKinney St., Suite 2800  
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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Name of Applicant and Assignee:  
Address of Applicant and Assignee:

SUN MICROSYSTEMS, INC.  
4150 Network Circle  
Santa Clara, CA 95054

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

**REVOCATION AND SUBSTITUTION  
OF POWER OF ATTORNEY UNDER 37 C.F.R. §1.36**

Dear Sir:

Pursuant to 37 C.F.R. §1.36, Sun Microsystems, Inc., the applicant and assignee of the patent applications listed on the attached APPENDIX A, revokes all previous powers of attorney in the patent applications listed on the attached APPENDIX A, hereby appoints the following attorneys and/or agents assigned to the Customer Number listed below to prosecute the patent applications listed on the attached APPENDIX A, and to transact all business in the U.S. Patent and Trademark Office connected therewith:

**Customer Number 32615**

Please direct all correspondence and telephone calls concerning the patent applications listed on the attached APPENDIX A to:

Robert P. Lord  
OSHA • LIANG LLP  
1221 McKinney Street, Suite 2800  
Houston, Texas 77010  
Telephone No.: (713) 228-8600  
Facsimile No.: (713) 228-8778

Further, please change the attorney/docket number corresponding to the patent applications listed in APPENDIX A from the attorney/docket number on file to that indicated on APPENDIX A.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the above-identified applicant.

The undersigned hereby declares that all statements made herein of the undersigned's own knowledge are true, that all statements made on information and belief are believed to be true, and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the sixteen patent applications listed on the attached APPENDIX A or any patents issuing thereon.

Signature:



Dated:

Dec. 20, 2006

Name:

Joseph A. Twarowski

Title:

Assistant General Counsel  
Sun Microsystems, Inc.

197121\_1

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## APPENDIX A

## 1. Patent Application/Serial No.: 10/799,049

Title: GARBAGE-FIRST GARBAGE  
COLLECTION

Filed: 3/12/2004

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 015079/0946

Reference No: 33226/940001; SUN040074

## 2. Patent Application/Serial No.: 10/394,813

Title: ELISION OF WRITE BARRIERS FOR  
STORES WHOES VALUES ARE IN  
CLOSE PROXIMITY

Filed: 3/21/2003

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 013905/0661

Reference No: 33227/023001; P7479

## 3. Patent Application/Serial No.: 09/551,113

Title: CONCURRENT SHARED OBJECT  
IMPLEMENTED USING A LINKED-  
LIST WITH AMORTIZED NODE  
ALLOCATION

Filed: 4/18/2000

Applicant: Sun Microsystems, Inc.

Reference No: 33226/960000; P4665

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4. Patent Application/Serial No.: 10/664,799

Title: BLINDED ENCRYPTION AND  
DECRYPTION

Filed: 9/18/2003

Applicant: Sun Microsystems, Inc.

Reference No: 33227/009001

5. Patent Application/Serial No.: 10/313,878

Patent No.: 7,143,124

Title: DETECTION OF DEAD REGIONS  
DURING INCREMENTAL  
COLLECTION

Filed: 12/6/2002

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 013559/0709

Reference No: 33226/977001; P8275

6. Patent Application/Serial No.: 09/547,288

Title: MAINTAINING A DOUBLE-ENDED  
QUEUE IN A CONTIGUOUS ARRAY  
WITH CONCURRENT NON-  
BLOCKING INSERT AND REMOVE  
OPERATIONS USING A DOUBLE  
COMPARE-AND-SWP PRIMITIVE

Filed: 4/11/2000

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 010712/0617

Reference No: 33226/959002; P4663

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**7. Patent Application/Serial No.: 10/861,704**

**Title: THREAD SUSPENSION SYSTEM AND  
METHOD**

**Filed: 6/4/2004**

**Applicant: Sun Microsystems, Inc.**

**Reference No: 33226/955002; P2927 C**

**8. Patent Application/Serial No.: 09/454,427**

**Title: DYNAMIC EMBEDDING OF LITERAL  
OBJECT DATA IN SUPPLIED  
INSTANCE OF INFORMATION  
OBJECT**

**Filed: 12/3/1999**

**Applicant: Sun Microsystems, Inc.**

**Reel/Frame No.: 010448/0577**

**Reference No: 33226/956001; P3916**

**9. Patent Application/Serial No.: 11/099,720**

**Title: SEQUENTIALLY PERFORMED  
COMPARE-AND-SWAP**

**Filed: 4/6/2005**

**Applicant: Sun Microsystems, Inc.**

**Reel/Frame No.: 016661/0899**

**Reference No: 33226/962002; P4667-US-DIV-1**

JUL 27 2007

**10. Patent Application/Serial No.:** 09/710,218**Patent No.:** 7,117,502**Title:** LINKED-LIST IMPLEMENTATION OF  
DATA STRUCTURE WITH  
CONCURRENT NON-BLOCKING  
INSERT AND REMOVE OPERATIONS**Filed:** 11/10/2000**Applicant:** Sun Microsystems, Inc.**Reel/Frame No.:** 011305/0889**Reference No.:** 33226/963001; P4896**11. Patent Application/Serial No.:** 10/996,508**Title:** WORK-STEALING QUEUES FOR  
PARALLEL GARBAGE COLLECTION**Filed:** 11/23/2004**Applicant:** Sun Microsystems, Inc.**Reel/Frame No.:** 011270/0285**Reference No.:** 33226/964002; P4946C1**12. Patent Application/Serial No.:** 60/204,184**Title:** PARALLEL GARBAGE COLLECTION  
FOR SHARED MEMORY  
MULTIPROCESSORS**Filed:** 5/15/2000**Applicant:** Sun Microsystems, Inc.**Reference No.:** 33226/964000; P4948

JUL 27 2007

**13. Patent Application/Serial No.:** 09/697,729**Patent No.:** 6,823,351**Title:** WORK-STEALING QUEUES FOR  
PARALLEL GARBAGE COLLECTION**Filed:** 10/26/2000**Applicant:** Sun Microsystems, Inc.**Reel/Frame No.:** 011270/0285**Reference No:** 33226/964001; P4946**14. Patent Application/Serial No.:** 09/893,256**Patent No.:** 7,103,887**Title:** LOAD-BALANCING QUEUES  
EMPLOYING LIFO/FIFO WORK  
STEALING**Filed:** 6/27/2001**Applicant:** Sun Microsystems, Inc.**Reel/Frame No.:** 011943/0085**Reference No:** 33226/966001; P5388**15. Patent Application/Serial No.:** 10/166,874**Title:** PREFETCHING TECHNIQUES FOR  
NETWORK INTERFACES**Filed:** 6/11/2002**Applicant:** Sun Microsystems, Inc.**Reel/Frame No.:** 013001/0641**Reference No:** 33226/967001; P7322

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16. Patent Application/Serial No.: 10/679,183

Title: DEFERRING AND COMBINING  
WRITE BARRIERS FOR A GARBAGE-  
COLLECTED HEAP

Filed: 10/3/2003

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 014590/0742

Reference No: 33226/971001; P7863

17. Patent Application/Serial No.: 10/653,828

Title: SHARED SYNCHRONIZED SKIP-LIST  
DATA STRUCTURE AND  
TECHNIQUE EMPLOYING  
LINEARIZABLE OPERATIONS

Filed: 9/3/2003

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 014483/0341

Reference No: 33226/972001; P7982

18. Patent Application/Serial No.: 10/991,148

Title: USE OF MEMORY PROTECTION TO  
IMPLEMENT REPLICATING  
COLLECTION IN A INCREMENTAL,  
COPYING GARBAGE COLLECTOR

Filed: 11/17/2004

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 016007/0616

Reference No: 33226/974001; P8226

**19. Patent Application/Serial No.:** 10/881,101

**Title:** USING CLASS PROPERTIES TO DEGREGATE OBJECTS IN A GENERATION MANAGED BY THE TRAIN ALGORITHM

**Filed:** 6/30/2004

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 015539/0072

**Reference No:** 33226/975001; P8231

**20. Patent Application/Serial No.:** 11/021,287

**Title:** METHOD AND APPARATUS FOR FORWARDING REFERENCES TO OBJECTS CONCURRENTLY WITH SPACE-INCREMENTAL GARBAGE COLLECTION

**Filed:** 12/23/2004

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 015627/0335

**Reference No:** 33226/976001; P8274

**21. Patent Application/Serial No.:** 10/313,878

**Patent No.:** 7,143,124

**Title:** DETECTION OF DEAD REGIONS DURING INCREMENTAL COLLECTION

**Filed:** 12/6/2002

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 013559/0709

**Reference No:** 33226/977001; P8275

JUL 27 2007

**22. Patent Application/Serial No.:** 10/930,483**Title:** IMPROVED SCANNING OF  
EVACUATED OBJECTS IN A  
GENERATION MANAGED BY THE  
TRAIN ALGORITHM**Filed:** 8/31/2004**Applicant:** Sun Microsystems, Inc.**Reel/Frame No.:** 015782/0538**Reference No.:** 33226/978001; P8276**23. Patent Application/Serial No.:** 10/391,405**Title:** PARALLEL CACHING OF  
INSERTIONS INTO REMEMBERED  
SETS**Filed:** 3/18/2003**Applicant:** Sun Microsystems, Inc.**Reel/Frame No.:** 013890/0128**Reference No.:** 33226/979001; P8303**24. Patent Application/Serial No.:** 11/131,827**Title:** METHOD AND APPARATUS FOR  
CONCURRENTLY PROCESSING  
REMEMBERED SETS IN A SPACE-  
INCREMENTAL GARBAGE  
COLLECTOR**Filed:** 5/18/2005**Applicant:** Sun Microsystems, Inc.**Reel/Frame No.:** 016366/0209**Reference No.:** 33226/981001; P8317

**25. Patent Application/Serial No.:** 10/309,503

**Patent No.:** 7,136,887

**Title:** METHOD AND MECHANISM FOR FINDING REFERENCES IN A CARD IN TIME LINEAR IN THE SIZE OF THE CARD IN A GARBAGE-COLLECTED HEAP

**Filed:** 12/4/2002

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 013550/0405

**Reference No.:** 33226/982001; P8318

**26. Patent Application/Serial No.:** 10/799,186

**Title:** EXPLOITING POPULAR OBJECTS TO REDUCE MUTATOR OVERHEAD

**Filed:** 3/12/2004

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 015091/0736

**Reference No.:** 33226/984001; SUN040081

**27. Patent Application/Serial No.:** 10/986,527

**Title:** EXPLOITING POPULAR OBJECTS TO REDUCE MUTATOR OVERHEAD

**Filed:** 11/11/2004

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 015983/0321

**Reference No.:** 33226/984002; SUN040081

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**28. Patent Application/Serial No.:** 10/799,187**Title:** CONCURRENT-MARKING-  
INITIATION HEURISTIC**Filed:** 3/12/2004**Applicant:** Sun Microsystems, Inc.**Reel/Frame No.:** 015095/0376**Reference No:** 33226/983001; SUN040079**29. Patent Application/Serial No.:** 10/986,401**Title:** CONCURRENT-MARKING-  
INITIATION HEURISTIC**Filed:** 11/11/2004**Applicant:** Sun Microsystems, Inc.**Reel/Frame No.:** 016020/0320**Reference No:** 33226/983002; SUN040079-CIP**30. Patent Application/Serial No.:** 11/090,398**Title:** METHOD AND APPARATUS FOR  
SWITCHING BETWEEN PER-THREAD  
AND PER-PROCESSOR RESOURCE  
POOLS IN MULTI-THREADED  
PROGRAMS**Filed:** 3/25/2005**Applicant:** Sun Microsystems, Inc.**Reel/Frame No.:** 016300/0319**Reference No:** 33226/987001; SUN040951

**31. Patent Application/Serial No.:** 11/215,510

**Title:** METHOD AND APPARATUS FOR SELECTIVELY ELIMINATING WRITE BARRIERS IN SNAPSHOT-AT-THE-BEGINNING CONCURRENT-MARKING GARBAGE COLLECTORS

**Filed:** 8/30/2005

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 016542/0156

**Reference No:** 33226/989001; SUN041094

**32. Patent Application/Serial No.:** 11/128,791

**Title:** METHOD AND APPARATUS FOR REDUCING REMEMBERED SET OVERHEAD IN A GENERATIONAL GARBAGE COLLECTOR BY CONSTRAINING COLLECTION SET CHOICE

**Filed:** 5/13/2005

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 016336/0241

**Reference No:** 33226/990001; SUN041424

**33. Patent Application/Serial No.:** 11/021,260

**Title:** METHOD AND APPARATUS FOR ISOLATING SELECTED HEAP OBJECTS USING A FAULTING ADDRESS TRAP

**Filed:** 12/23/2004

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 015627/0286

**Reference No:** 33226/991001; SUN041505

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34. Patent Application/Serial No.: 11/091,611

Title: METHOD AND APPARATUS FOR  
IMPROVING PARALLEL MARKING  
GARBAGE COLLECTORS THAT USE  
EXTERNAL BITMAPS

Filed: 3/28/2005

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 016082/0276

Reference No: 33226/992001; SUN050023

35. Patent Application/Serial No.: 11/091,032

Title: METHOD AND APPARATUS FOR  
RECORDING MODIFIED REFERENCE  
LOCATIONS IN GARBAGE-  
COLLECTED HEAP MEMORY

Filed: 3/28/2005

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 016082/0191

Reference No: 33226/993001; SUN050025

36. Patent Application/Serial No.: 11/218,145

Title: METHOD AND APPARATUS FOR  
DYNAMICALLY PRE-TENURING  
OBJECTS IN A GENERATIONAL  
GARBAGE COLLECTION SYSTEM

Filed: 9/1/2005

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 016542/0121

Reference No: 33226/994001; SUN050202

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37. Patent Application/Serial No.: 11/218,179

**Title:** METHOD AND APPARATUS FOR  
BYTE ALLOCATION ACCOUNTING  
IN A SYSTEM HAVING A MULTI-  
THREADED APPLICATION AND A  
GENERATIONAL GARBAGE  
COLLECTOR THAT DYNAMICALLY  
PRE-TENURES OBJECTS

**Filed:** 9/1/2005

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 016542/0109

**Reference No:** 33226/995001; SUN050203

38. Patent Application/Serial No.: 11/474,599

**Title:** APPARATUS AND METHOD FOR  
COORDINATED VIEWS OF  
CLUSTERED DATA

**Filed:** 6/26/2006

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 017917/0010

**Reference No:** 33226/996001; SUN050482

39. Patent Application/Serial No.: 11/477,021

**Title:** METHOD AND APPARATUS FOR  
SEARCHING AND RESOURCE  
DISCOVERY IN A DISTRIBUTED  
ENTERPRISE SYSTEM

**Filed:** 6/28/2006

**Applicant:** Sun Microsystems, Inc.

**Reference No:** 33226/997001; SUN050600

**40. Patent Application/Serial No.:** 11/413,641

**Title:** METHOD AND APPARATUS FOR BROWSING SEARCH RESULTS VIA A VIRTUAL FILE SYSTEM

**Filed:** 4/28/2006

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 017754/0711

**Reference No:** 33226/998001; SUN050633

**41. Patent Application/Serial No.:** 11/182,539

**Title:** METHOD AND APPARATUS FOR GENERATING MEDIA PLAYLISTS BY DEFINING PATHS THROUGH MEDIA SIMILARITY SPACE

**Filed:** 7/15/2005

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 016366/0563

**Reference No:** 33226/999001; SUN050732

**42. Patent Application/Serial No.:** 10/800,363

**Title:** MIXING COPYING COLLECTION AND CONCURRENT MARKING

**Filed:** 3/12/2004

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 015983/0314

**Reference No:** 33226/938000; SUN040073

**43. Patent Application/Serial No.:** 09/837,669

**Patent No.:** 7,017,160

**Title:** CONCURRENT SHARED OBJECT  
IMPLEMENTED USING A LINKED-  
LIST WITH AMORTIZED NODE  
ALLOCATION

**Filed:** 4/18/2001

**Applicant:** Sun Microsystems, Inc.

**Reel/Frame No.:** 011734/0644

**Reference No:** 33226/960001; P4665-CIP-0

**44. Patent Application/Serial No.:** 11/384,627

**Title:** CONCURRENCY TECHNIQUE FOR  
SHARED OBJECTS

**Filed:** 3/20/2006

**Applicant:** Sun Microsystems, Inc.

**Reference No:** 33226/960002; P4665US-CON-0

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Application No. (If known): 09/837,669

Attorney Docket No.: 33226/960001; P4685US-CIP-0

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